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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/647,811 08/25/2003 Rainer Gadow 4965-000160 2359 27572 7590 06/02/2004 **EXAMINER** HARNESS, DICKEY & PIERCE, P.L.C. PAIK, SANG YEOP P.O. BOX 828 PAPER NUMBER ART UNIT **BLOOMFIELD HILLS, MI 48303**

> 3742 DATE MAILED: 06/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applic	ation No.	Applicant(s)	
Office Action Summary		10/64	7,811	GADOW ET AL	L.
		Exami	ner	Art Unit	
		Sang \	/ Paik	3742	
Period f	The MAILING DATE of this commun or Reply	nication appears on	the cover sheet	with the correspondence	address
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUN ensions of time may be available under the provision of SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (b) operiod for reply is specified above, the maximum some to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no munication. 30) days, a reply within the tatutory period will apply ar y will, by statute, cause the	o event, however, may statutory minimum of t id will expire SIX (6) M application to become	a reply be timely filed hirty (30) days will be considered ti ONTHS from the mailing date of th ABANDONED (35 U.S.C. § 133).	is communication.
Status					
1)	Responsive to communication(s) fil	ed on			
-)∟ 2a)□	•	2b)⊠ This action i	s non-final.		
3)					
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims				
5)⊠ 6)⊠ 7)⊠	4) Claim(s) 1-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-5,10,12,15-31 and 37 is/are allowed. 6) Claim(s) 6-9,32-36 and 38-40 is/are rejected. 7) Claim(s) 11,13 and 14 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.				
Applicat	ion Papers				
10)⊠	The specification is objected to by the The drawing(s) filed on <u>8/25/03</u> is/an Applicant may not request that any objected that any objected that any objected the oath or declaration is objected the specific transfer of	re: a)⊠ accepted of ection to the drawing of the correction is rec	s) be held in abey quired if the drawi	rance. See 37 CFR 1.85(a)	7 CFR 1.121(d).
Priority (under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachmer	, ,		_		
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date <u>8/25/03</u> .		Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (I 	PTO-152)

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DETAILED ACTION

Claim Objections

1. Claim 11 is objected to because of the following informalities: claim 11 depends on to itself. This seems to be a typographical error. Claim 11 seems to be should have been dependent upon claim 1 having proper antecedent basis for the bonding layer. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 6-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 6-8, there is no proper antecedent basis for "said cermet" material.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 32-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Martin et al (US 3,978,315).

Martin et al shows a ceramic cooktop with a cooktop (1) made of glass ceramic, an intermediate layer (2) made of a cermet material having a metal matrix of cobalt and a ceramic

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material including ceramic oxides, an insulating layer (3) made of cordierite, and a heat conductor layer (4). Martin et al further shows that the glass coating on the ceramic glass and the conductive layer are provided utilizing the known methods which includes spraying.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin et al (US 3,978,315) in view of Alexander (US 3,110,571) or Flaitz et al (US 4,764,341).

Martin et al shows the ceramic cooktop claimed except a ceramic bonding layer.

Alexander shows a ceramic bonding layer to bond a ceramic to a metallic layer. Flaitz et al also shows a ceramic bonding layer to bond a ceramic substrate to a metallic layer. In view of Alexander or Flaitz et al, it would have been obvious to one of ordinary skill in the art to adapt Martin et al with a ceramic bonding layer to provide a ceramic bonding layer between a ceramic substrate and a metallic layer such as the cermet material to more securely bond such layers.

Allowable Subject Matter

- 8. Claims 1-5, 10, 12, 15-31 and 37 are allowed.
- 9. Claims 6-9 would be allowable if rewritten to overcome the rejection(s) under 35
 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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10. Claims 11-14 would be allowable if rewritten to overcome the claim objections set forth

in the beginning of the Office action.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sang Y Paik whose telephone number is 703-308-1147. The

examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

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S. B_

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